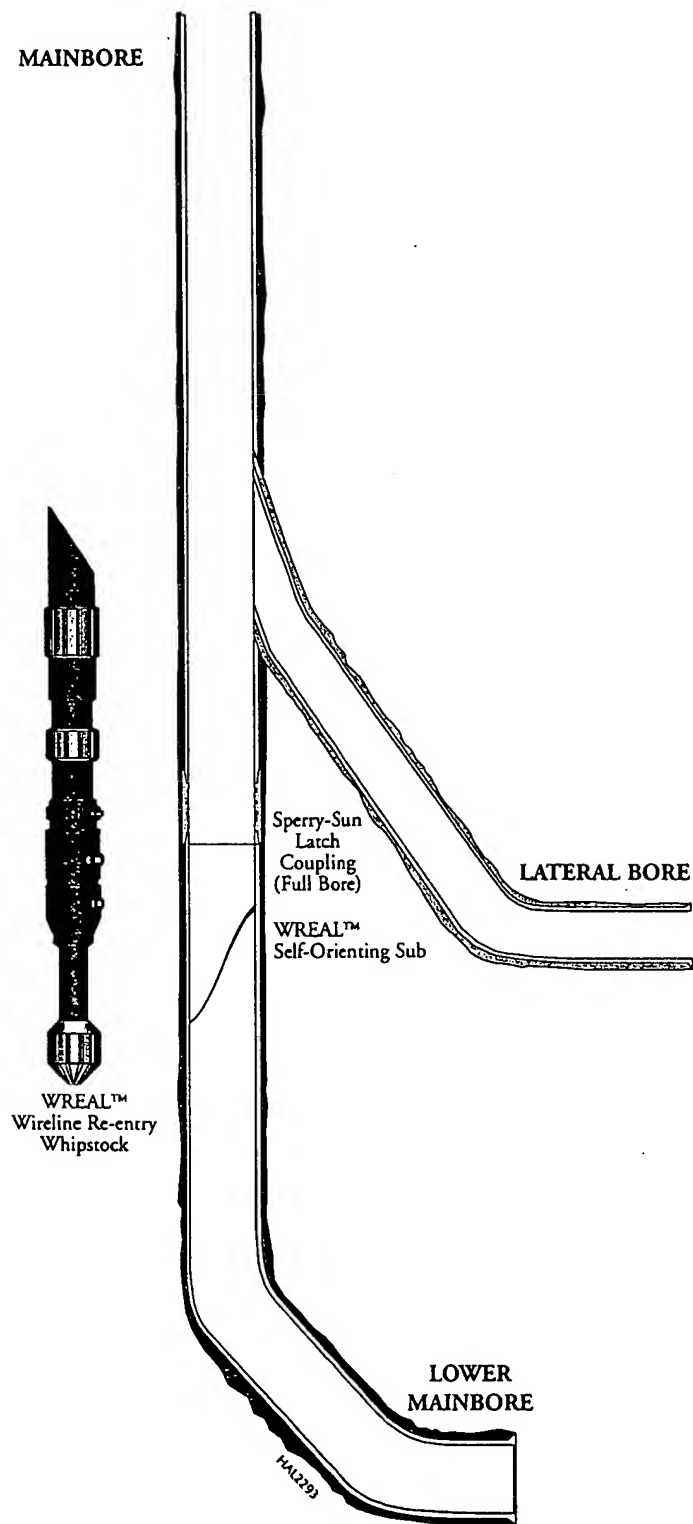


Multilateral Services *Profile*

WREAL™ Wireline Re-entry Alignment System WorkMaster™ Workover Systems



Application

The WREAL™ system is designed to allow non-rig intervention into the lateral bore for workover operations. This system is designed to enable cost-effective and simple well intervention of the lateral for cleaning, stimulation, zonal isolation, and data acquisition or to exploit additional zones. The WREAL™ system consists of a self-orienting sub that is run in conjunction with the Sperry-Sun latch coupling and a re-entry whipstock that uses two different profiles to first orient the deflector correctly and then lock the deflector in place. The WREAL™ whipstock uses bore-sensing technology to ensure engagement at the correct orientation and depth prior to locking in place and release of the setting tool. A dual-profile WREAL™ latch sub can be deployed as part of any pre-milled LTBS™ lateral tie-back system or RMLS™ retrievable multilateral system window joint or with any RDS™ re-entry drilling system or MERLIN™ milled exit retrievable system that uses a Sperry-Sun latch coupling. The WREAL™ system is particularly useful for level 2, 3, and 4 wells with monobore completions in which non-rig intervention into the lateral is expected during the life of the well.

Features

- WREAL™ self-orienting sub
- Bore-sensing design for locating and orienting whipstock to the lateral bore
- Safety system requires alignment and locking prior to release
- Precise azimuth and depth control allows simple lateral access
- Non-throated deflector allows full-gauge assemblies access to the lateral

Benefits

- Allows low-cost, non-rig intervention operations with wireline or coiled tubing
- Compatible with LTBS™ and RMLS™ new well multilateral systems
- Compatible with MERLIN™ and RDS™ systems
- Bore-sensing allows repeatable lateral re-entry
- WREAL™ self-orienting sub can be stacked in series

WREAL™ System
Wireline Re-entry Whipstock
Coiled Tubing or Wireline

Multilateral Services *Specifications*

WREAL™ Wireline Re-entry Alignment System WorkMaster™ Workover Systems



Typical Installation Sequence

- Rig up coiled tubing or wireline.
- Run in hole WREAL™ whipstock and set in WREAL™ locator sub.
- Perform cleaning, stimulation, zonal isolation, or data acquisition as required.
- Run in hole retrieving tool on coiled tubing or wireline and pull WREAL™ whipstock.
- Rig down and put well back on production.

WREAL™ System Specifications

System casing size	7 in. 177.8 mm
Casing weight	26-32 lb/ft
Work string	Wireline or coiled tubing
Re-entry work	Use with any Sperry-Sun multilateral system that uses a Sperry-Sun latch coupling with a WREAL™ sub

sperry-sun
DRILLING SERVICES

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